

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number  
**WO 2005/086101 A1**

(51) International Patent Classification<sup>7</sup>: **G07D 9/06**, 9/00

(21) International Application Number:  
PCT/US2005/007256

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/549,717 3 March 2004 (03.03.2004) US

(71) Applicant (for all designated States except US): **DE LA RUE CASH SYSTEMS INC.** [US/US]; 705 South 12th Street, P.O. Box 200, Watertown, WI 53094 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HANUS, Joseph, P.**; 1617 Lakeside Terrace, Watertown, WI 53094 (US).

**UECKER, Richard, P.**; 2402 Lough Lane, Hartford, WI 53027 (US). **ADAMS, Thomas, P.**; 2080 N. Oakwoods Court, Oconomowoc, WI 53066 (US). **GINSTERBLUM, Richard, J.**; 342 College St., Lake Mills, WI 53551 (US).

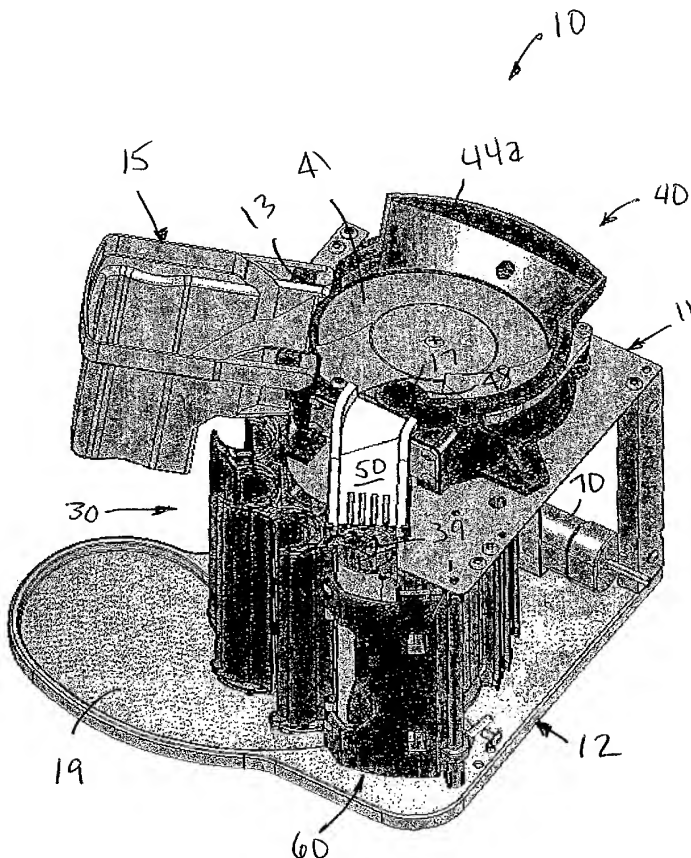
(74) Agent: **MCGOVERN, Michael, J.**; Quarles & Brady, 411 E. Wisconsin Ave., Milwaukee, WI 53202-4497 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR FILLING COIN MAGAZINES



(57) Abstract: A method and apparatus for filling a coin magazine (30, 120, 170) has a support (20, 112, 173) for supporting the magazine, a coin feeder (40, 115, 173) for receiving batches of coins and feeding coins to a coin filling location, the coin magazine having a first channel (33, 126, 171) positioned at a coin filling location, a chute (50, 117, 148) for guiding the coins from an exit of the coin feeder to the coin filling location, a guard (60, 117, 147) positioned next to the coin filling location for preventing coins from overshooting the coin filling location, and wherein the coin magazine is movable on the support between the second position for receiving coins in the first channel (33, 126, 171) and a third position for receiving coins in a second channel (33, 126, 171). Other embodiments are disclosed for straight line coin magazines, for lifting the coin feeding assembly to load and unload a magazine and for moving coins with a scalloped coin feeding mechanism.

WO 2005/086101 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*